FEDOROV, V. G. and GERASHCHENKO, O. A. (ITTF Academy of Sciences of Ukrainian SSR)

"On sensor units of heat flow developed by them for high-temperature measurements".

Report presented at the Section on Heat Exchange in Single Phase Medium, Scientific Session, Council of Acad. Sci. Ukr SSR on High Temperature Physics, Kiev, 2-4 Apr 1963.

Reported in Teplofizika Vysokikh temperatur, No. 2, Sep-Oct 1963, p. 321, JPRS 24,651.
19 May 1964.

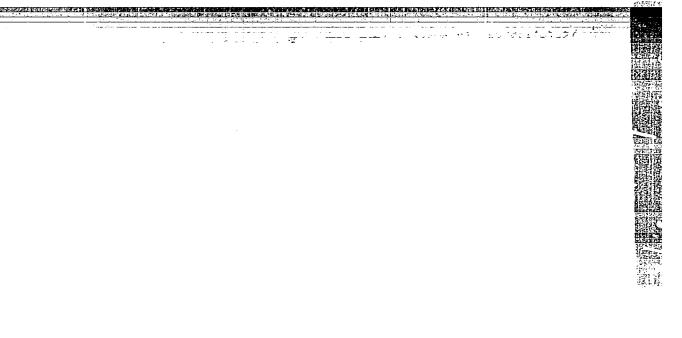
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AND REPORT OF THE PROPERTY OF

GERASHCHE'KO, Oleg Arkad'yevich; FEDOMOV, Vladimir Gavrilovich;

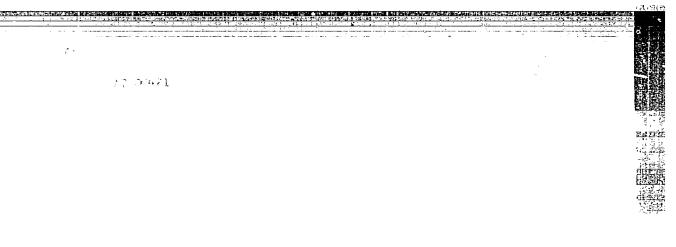
SELYAVIN,G.F., kand.tekhn.nauk,otv.red.; SITMIK,H.K., red.

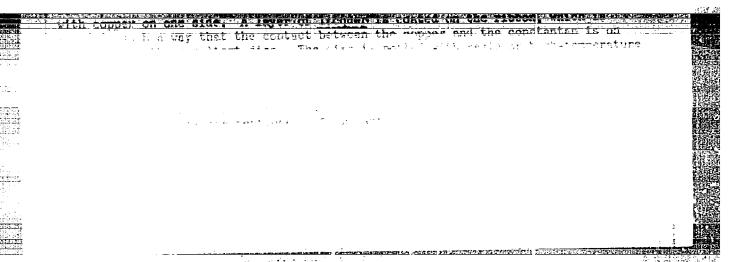
[Technique of the heat-engineering experiment] Tekhnika
teplotekhnicheskogo eksperimenta. Kiev, Izd-vo "Haukove.
dumka," 1964. 161 p. (MIRA 17:7)

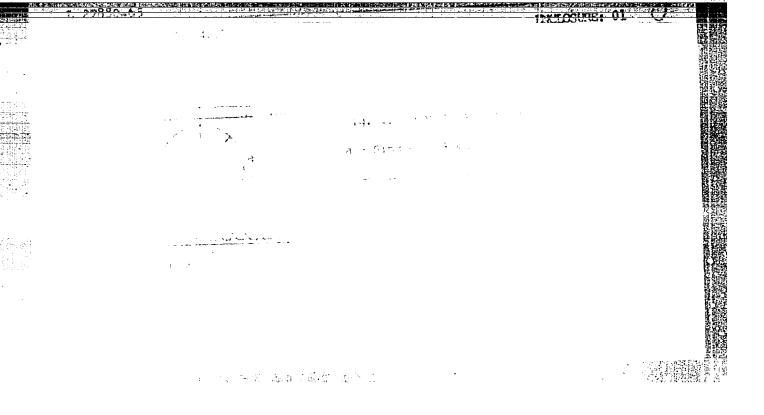


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ACC NR: AT6011939 SOURCE CODE: UR/0000/66/000/000/0207/0210

AUTHOR: Gerashchenko, O. A. (Kiev); Fedorov, V. G. (Kiev)

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ORG: none

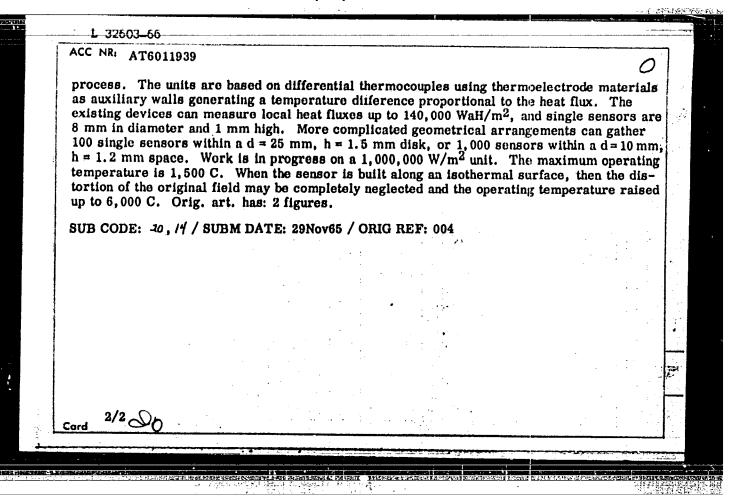
TITLE: Thermoelectric heat flow measuring elements

SOURCE: Vsesoyuznaya konferentsiya po avtomaticheskomu kontrolyu i metodam elektricheskikh izmereniy, 5th. Avtomaticheskiy kontrol' i metody elektricheskikh izmereniy; trudy konferentsii, t. 2: izmeritel'nyye informatsionnyye sistemy. Ustroystva avtomaticheskogo kontrolya. Elektricheskiye izmereniya neelektricheskikh velichin (Automatic control and electrical measuring techniques; transactions of the conference, v. 2: Information measurement systems. Automatic control devices. Electrical measurements of nonelectrical quantities). Novosibirsk, Izd-vo Nauka, 1966, 207-210

TOPIC TAGS: thermocouple, conductive heat transfer, intensive heat transfer, flow measurement

ABSTRACT: The knowledge of the local value of the heat flux is very important information for the understanding of processes in devices based on heat exchange. In the past no instruments were available for the measurements of heat transfer through very small surfaces in objects of arbitrary configuration. Consequently, the present authors developed universal, highly accurate and stable devices which do not generate distortions of the original physical

Card 1/2



ACC NR AT7004205

SOURCE CODE: UR/0000/66/C00/000/0012/C014

AUTHORS: Gerashchenko, O. A.; Fedorov, V. G.

ORG: none

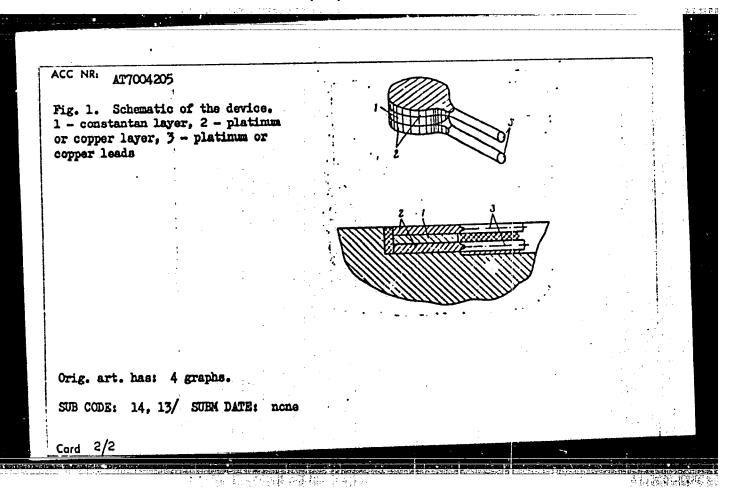
TITLE: Investigation of high-temperature processes with the aid of transducers sensitive to local heat fluxes

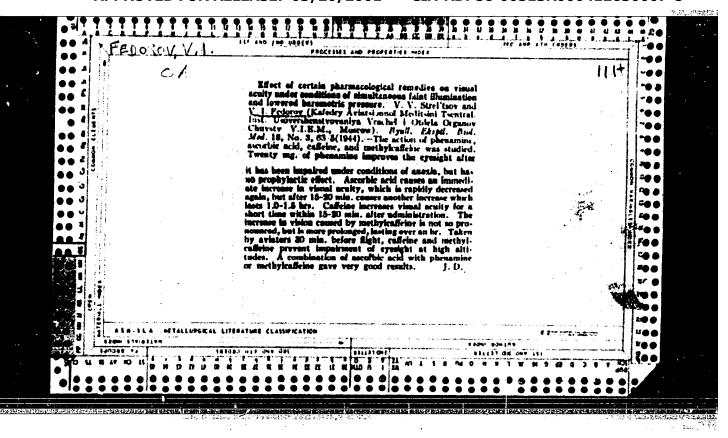
SOURCE: AN SSSR. Institut metallurgii. Eksperimental naya tekhnika i metody vysokotemperaturnykh izmereniy (Experimental techniques and methods of high temperature measurement). Moscow, Izd-vo Nauka, 1966, 12-14

TOPIC TAGS: temperature detector, temperature instrument, heat measurement, heat flux pickup

ABSTRACT: A device for determining local heat fluxes (see Fig. 1) was developed at the Institute for Thermal Energy, AN UkrSSR (Institut teploenergetiki AN UkrSSR). The device, which operates on the thermoelectric principle, is capable of measuring heat fluxes up to 120000 Kcal/m²/hour across an area of 0.5 cm² with an accuracy of %. A scheme for determining the temperature of hot gases with the constructed device was also developed. It is concluded that, with extension of the working temperature and further improvement in the sensitivity, the device will afford greater accuracy than is obtainable with existing methods in determining local heat fluxes and temperatures of hot gases.

Card 1/2





EEREZOVSKIY, A.A., kand. sel'skokhozyaystvennykh nauk; ZUFRILINA, Z.A., mladshiy nauchnyy sotrudnik; FEDOROV, V.I.; mladshiy nauchnyy sotrudnik

Sugar beets in rations for swine. Zhivotnovodstvo 23 no.3: 25-27 Mr '61. (MIRA 17:1)

1. Vsesoyuznyy institut zhivotnovodstva.

ACCESSION NR: AR4027703

s/0276/64/000/002/G007/G008

SCURCE: RZh. Tekhnologiya mashinostroyeniya, Abs. 2038

AUTHOR: Frolov, N. A.; Belinkiy, A. L.; Fedorov, V. K.; Istrina, Z. F.

TITLE: High-strength casting of new corrosion-resisting (stainless) steels with reduced nickel content

CITED SOURCE: Tr. Vses. n.-t. 1 konstrukt. in-t khim. mashinostr., vy*p. 43, 1963, 88-95

TOPIC TAGS: high-strength casting, corrosion-resisting steel, low nickel content, heat treatment, inter-crystal corrosion, steel, nickel steel

TRANSLATION: Steel Kh2lN5TL has satisfactory casting properties enabling sufficiently complex castings of high strength to be produced. As a result of heat treatment, the yield point of this steel exceeds by 1.5—2 times that of type 18—8 chromium—nickel steels. Its resistance to corrosion in a number of media approaches that of Kh18N9TL steel. With a percentage ratio Ti:C >> 5 it is not prone to inter-crystal corrosion. Steel Kh17N4S2L has good casting

Card 1/2

ACCESSION NR: AR4027703

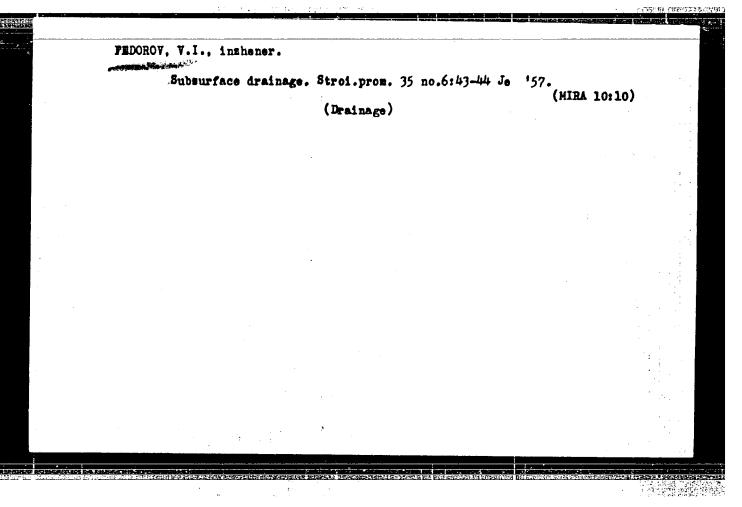
properties, considerably surpassing those of Kh18N9TL, and can be used to make particularly complex castings. Heat treatment of it insures a yield point 2--2.5 times higher than that of Kh18N9TL. Its resistance to corrosion is considerably lower than that of Kh21N5TL, hence castings from it can be used only for slightly aggressive media. Kh17N4DZL has better casting properties than Kh18N9TL and Kh21N5TL, but lower than Kh17N4DZL surpasses austenitic steels by more than double in hardness, is not prone to inter-crystal corrosion as determined by the AM method (GOST 6032-58), is resistant in a number of aggressive media and can be used to make equipment operating in sea water and certain acids, gas and oil wells and oil refineries.

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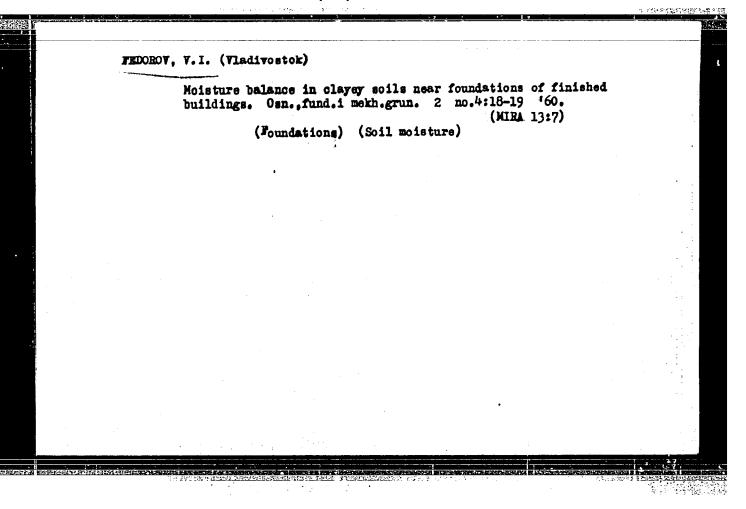


FEDOROV, V.I., Cand Tech Sci — (diss) "System of ground of which is the form of the Far East." Vladivostok, 1959, 17 pp (Acad Sci USSR. Siberian Department. Far Eastern Affiliate im V.L. Komarov)

150 copies (KL, 33-59, 119)

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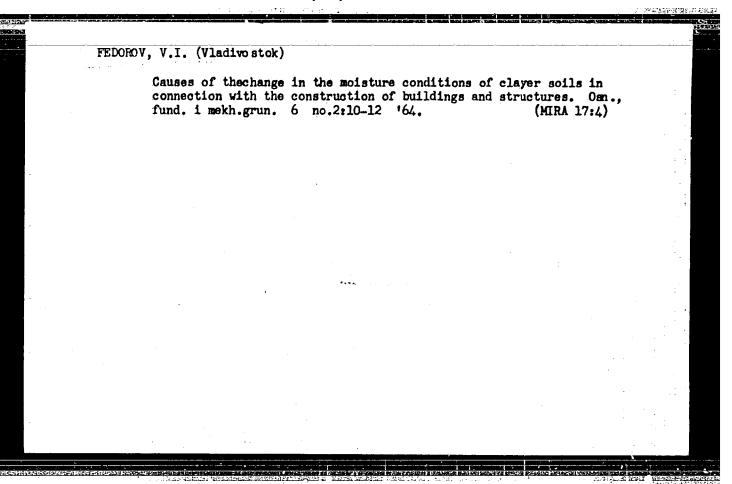
- 38 -



FEDOROVA, N.Ya., kand. tekhn. nauk; FEDOROV. V.I., kand. tekhn. nauk; IFTINKA, G.A., red.; SHEVCHENKO, T.N., tekhn. red.

[Instructions for designing and constructing foundations and basements of buildings and installations on clay soils by the seam draining method] Ukazaniia po proektirovaniiu i ustroistvu fundamentov i podvalov zdanii i scoruzhenii v glinistykh gruntakh po metodu dreniruiushchikh prosloek. Moskva, Gosstroiizdat, 1963. 26 p. (MIRA 17:2)

1. Russia (1917- R.S.F.S.R.) Gosudarstvennyy komitet po dedam stroitel'stva. 2. Dal'nevostochnyy nauchno-issledovatel'skiy institut po stroitel'stvu Gosstroya RSFSR (for Fedorova). 3. Proyektnyy institut No.4 Dal'nevostochnogo sovnarkhoza (for Fedorov).

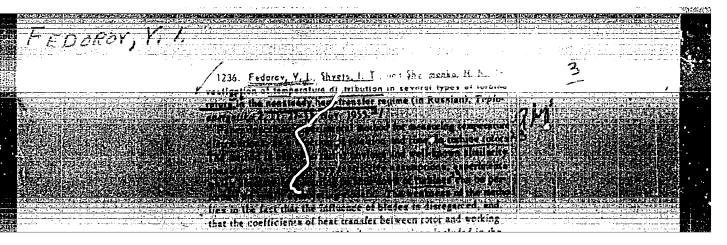


FEDOROV, V. I.

Hydrodynamics

Dissertation: "Investigation of Elements of a System of Hydraulic Steam Distribution of Steam Engines With a Slide-Valve Distributor." Cand Tech Sci, Inst of Thermal Power Engineering, Acad Sci Ukr SSR, Kiev, 1953. (Referativnyy Zhurnal --Mekhanika Moscow, Mar 54)

SO: SUM 213, 20 Sep 1954



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PEDOROV, V.I.; SHYETS', I.T.; SHEL'MENKO, N.H. On temperature distribution in turbine rotors. Dop.AN URSR no.6: 533-536 '55. (MIRA 9:7) 1.Diysniy chlen AN URSR (fer Shvets').2.Înstitut teployenergetiki AN URSR. (Impellers)

FEDOROVIVI

AID P - 3885

Subject

USSR/Power Eng.

Card 1/1

Pub. 110-a - 6/17

Authors

: Fedorov, V. I., Kand. Techn. Sci., I. T. Shvets, Dr. Tech. Sci., and N. N. Shel'menko, Eng.

Title

Research on temperature distribution in some turbine

rotors at unstable heat transfer

Periodical

: Teploenergetika, 11, 27-51, N 1955

Abstract

: The article deals with research on deformations in rotors which occur during start and stoppage of operations due to increased heat loads. Different makes of rotors are discussed. The results of the research are presented with 7 figures. The use of

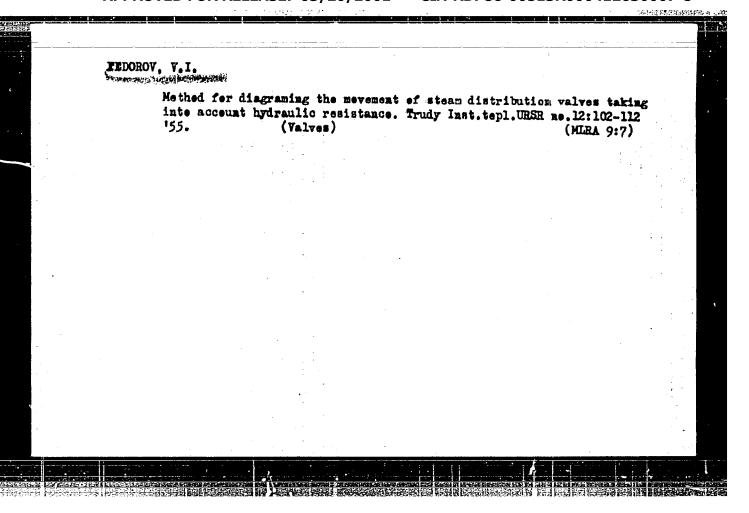
welded, disc-shaped rotors is advocated.

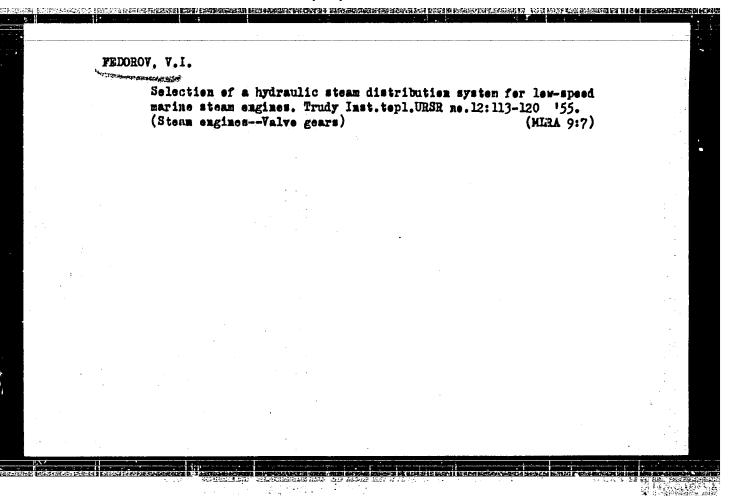
Institution:

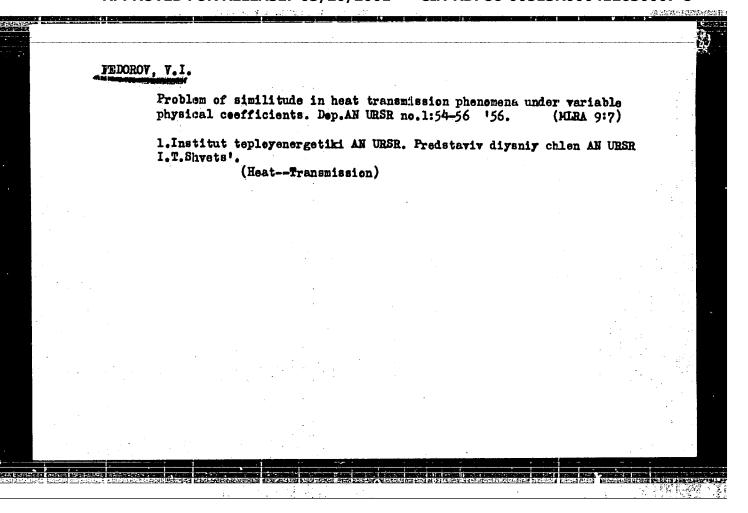
None

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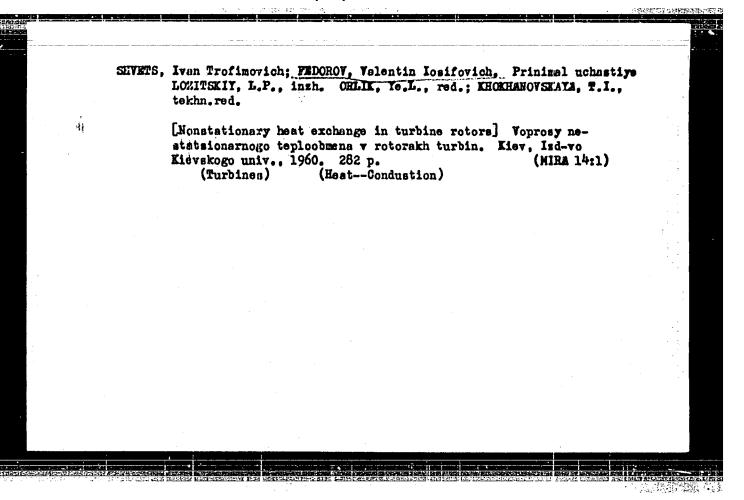




FEDOROV. V.I.: SHVETS, I.T.; SHEL'MENEO, N.N.

Experimental investigation of temperature distribution in a rotor of drum design subject to nonsteady heat exchange. Trudy Inst.tepl.
AN URSR no.13:53-59 '56. (MIRA 10:5)

(Turbines)



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3/044/62/000/007/057/100

1.0111/0333

AUTHORS:

Shvets', I. T., Fedorov, V. Y. Bodnarchuk, V. G.

TITLE:

The application of some approximation methods to the solution of the heat-equations in turbine-rotors

PERIODICAL: Referativnyy zhurnal, Matematika, no. 7, 1962, 33, abstract 7V148. ("Zb. prats'. In-t teploenerg. AN URSR,"

1960, no. 18, 3-15)

Investigated is the change of the temperature in an infinite TEXT: hollow cylinder at instationary heat exchange. The problem leads to the following boundary value problem

$$\frac{\partial u}{\partial \tau} - b \left\{ \frac{\partial^2 u}{\partial z^2} + \frac{1}{\rho} \cdot \frac{\partial u}{\partial z} + \frac{\partial^2 u}{\partial \zeta^2} \right\}; \tag{1}$$

$$\left[\frac{\partial u}{\partial \rho} + h \left(u - u_{sol}\right)\right]_{\rho = 1} = 0; \tag{2}$$

$$\left[\begin{array}{c} \frac{\partial u}{\partial \rho} \right]_{\rho-k} = 0; \tag{3}$$

$$[u]_{s=0} \leftarrow u_{\bullet \bullet} \tag{4}$$

Card 1/3

S/044/62/000/007/057/100
The application of some approximation...C111/C333 $u(T, g, \tilde{J})$ being the searched function, $k \leq g \leq 1, -\infty \leq \tilde{J} \leq +\infty$, b and h being certain constants, u being the temperature of the outside medium. One especially considers the case where u does not depend on 5. In this case the question leads to the boundary value problem

$$\frac{\partial^2 \theta}{\partial \rho^2} + \frac{1}{\rho} \cdot \frac{\partial \theta}{\partial \rho} - \frac{\partial \theta}{\partial \tau} - F(\rho, \tau); \qquad (1')$$

$$\begin{bmatrix}
\frac{\partial \theta}{\partial \rho}
\end{bmatrix}_{\rho=1} - [-h(\theta - \theta_{cp})]_{\rho=1}; \qquad (2')$$

$$\begin{bmatrix}
\frac{\partial \theta}{\partial \rho}
\end{bmatrix}_{\rho=h} = 0; \qquad (3')$$

$$[\theta]_{-0} - \theta_{e}, \qquad (4')$$

$$\left[\frac{\partial \theta}{\partial r}\right]_{\rho=ab} = 0; \tag{3'}$$

$$[\theta]_{\cdot,-0} = \theta_{\bullet}. \tag{4'}$$

If in problem (1) - (4) one gives u as a function of T and S, and in problem (1') - (4') θ_{ex} as a function of T, and if one carries out a Laplace transformation with respect to T, then the boundary value Card 2/3

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The application of some approximation... C111/C333

problems (1) - (4) and (1') - (4') leads to new problems the solutions of which are the images of u(T, g,), respectively θ (T, g). These images are approximatively determined according to the method of averaging of the functional corrections of Yu. D. Sokolov and according to the method of B. G. Galerkin. After the subsequent transition to the originals one obtains approximative solutions of (1)-(4) and (1')-(4'). The first one of these two problems is solved according to the method of Yu. D. Sokolov, the second one according to Yu. D. Sokolov and B. G. Galerkin. With each of these methods one determines two approximations each. Because of numerical calculations one draws diagramms characterising the exactness of the obtained approximative solutions. Well-founded recommendations for the application of these methods in the praxis of the engineer are given.

Abstracter's note: Complete translation.

Card 3/3

FEDOROV, V. I., and LEONTYEV, A. I.

"Application of the Local Modelling Theory to the Investigation of Heat Transfer and Resistance at Gas Flow along the Ducts."

Report submitted for the Conference on Heat and Mass Transfer, Minsk, BSSR, June 1961.

26.2120

\$/021/61/000/006/008/009"! D247/D301

AUTHORS:

Minyaylenko, M.O., Fedorov, V.I., and Shel'menko, N.N.

TITLE:

Temperature measurement of turbine elements

PERIODICAL: Akademiya nauk Ukrayins'koyi RSR, Dopovidi, no. 6,

1961, 759 - 762

TEXT: The authors, after discussing the importance of the temperature conditions in different parts of steam and gas turbines, describe experimental methods at exact temperature measurements in turbine rotors or housings, worked out in the department of ther-mal motors of the Institute of Heat and Power Engineering at the Academy of Sciences UkrSSR. A chromel-alumel thermocouple was prepared from an 0.5 mm wire, plaited with a glass thread impregnated with a silicone fire-proof cement. In the tested rotors a central opening was bored out with radial holes at chosen points, intersecting the central one. In the holes thermocouples were inserted by means of wires, the former being coated with a glass fabric pre-Card 1/5

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Temperature measurement of ...

S/021/61/000/006/008/009 D247/D301

serving them from mechanical damage. When the thermocouples were pulled through the holes, they were held fast in their place by a special device and welded to a chosen point; after welding, holes were filled with heat resistant cement and a metallic stopper was fixed on the top, its object being to withstand the cement pressure during the turbine high speed revolutions, and thus prevent dislocation of the thermocouples. A schematic drawing of the fixing device is given. For determining the exact temperature range in working and stationary turbine elements a special apparatus has been developed, permitting the recording of the variable EMF of thermocouples in a few seconds, within 2 %. The thermocouple EMF was conducted through a rotary contact, an automatic switch and through an amplifier to a recording oscillograph. Thermocouples from stationary elements were directly connected with the automatic switch. For evaluating the equipment operation, a method of comparison of the oscillograph readings of the tested thermocouples with those of standard ones was used, one of the control thermocouples being connected with its ends crossed, thus permitting the determination of

Card 2/5

S/021/61/000/006/008/009, D247/D301

Temperature measurement of ...

the amplifier background (Hb.g.). The evaluation proceeded as follows: (1) The difference between the oscillograph readings for two standard thermocouples was taken - $H_{\rm st2}$ - $H_{\rm o}$, where $H_{\rm st2}$ - reading of the non-crossed standard thermocouple, $H_{\rm o}$ - reading of the crossed one. (2) The value of the background was determined:

$$H bg = \frac{H_{st2} - H_o}{2}$$

(3) The difference $H_{\rm st2}-H_3$ was determined, H_3 being the width of the light-ray tip taken from the oscillograph m. (4) To the value $H_{\rm st2}-H_3$, the value of the background was added or subtracted,

$$H = H_{st2} - H_3 \pm H_f$$

(subtracted when $H_{st2} > H_o$, added when $H_{st2} < H_o$). The value "H" corresponds to the temperature difference: $t_{hj} - t_{cj}$ that of the Card 3/5

S/021/61/000/006/008/009 D247/D301

Temperature measurement of ...

hot and cold junctions of the standard thermocouples. (5) The correction scale for the oscillograph records was calculated:

$$K = \frac{t_{hi} - t_{cj}}{H}.$$

(6) The temperature of the investigated point was calculated:

$$t = (H_t - H_3 \pm H_f) K + t_{cj}$$

where H_t is the deflection of the light ray on the oscillograph under the effect of the EMF of the investigated thermocouple. The methods and equipment mentioned were used in the Institute of Heat and Power Engineering to determine local temperatures in turbine rotors and housings and for evaluating thermal stresses in these installations, and were found in practice to be very valuable. This report was presented by I.T. Shvets (Member of the Academy of Sciences UkrSSR). There are 3 figures.

Card 4/5

Temperature measurement of ... S/021/61/000/006/008/009.

ASSOCIATION: Instytut teploenergetyky AN URSR (Institute of Heat and Power Engineering, AS UkrSSR)

SUBMITTED: October 8, 1960

FEDOROV, V.I.; MINYAYLENKO, N.A.; RUSAKOV, S.S.

Temperature field and gradientr in the parts of a turbine rotor, made of welded discs, under starting conditions. Dop. AN URSR no.10:1317-1322 '61. (MIRA 14:11)

1. Institut teploenergetiki AN USSR. Predstavleno akademikom AN USSR I.T.Shvetsom [Shvets', I.T.].

(Turbines)

(Thermodyjamics)

21362 S/021/61/000/011/010/011 D299/D304

26.VIVT

Fedorov, V. X., and Minyaylenko, M. O.

TITLE:

Unsteady heat exchange between rotor and turbine shaft

PERIODICAL:

Akademiya nauk UkrRSR. Dopovidi, no. 11, 1961,

1498-1502

TEXT: The results are given of measuring the unsteady temperature field and temperature gradients at the joints between rotor and shaft. The investigation was carried out by simulation of the heat processes on a hydro-integrator. First, a barrel-type rotor with a shaft formed of two cylinders, was investigated. The radius of rotor to that of shaft varied between R/r = 1.5; 2; 2.5; 3; r = 200 mm. The temperature at the end surface of the rotor and the shaft surface changed linearly, attaining a maximum of $t_2 = 350^{\circ}$ C.

Various rates of temperature increase of the medium were considered. The change in the temperature gradients and rotor temperature was determined from various ratios, up to the maximum temperature of the body in the neighborhood of the rotor, i.e. up to 700°C. The

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Unsteady heat exchange ...

following results were obtained with R/r = 1.5 and coefficient of heat transfer $\alpha_1 = 500$ kcal/m²hour degCels. With a prolonged in-

crease in temperature of the turbine body, the maximum gradients decrease. The heat exchange between the medium, the end surface of the rotor and the shaft surface has an insignificant effect on the temperature field of the rotor during the first few minutes of heating; but from the tenth minute on, this influence becomes considerable. The intensity of the heat exchange at the end surfaces of the rotor affects the magnitude of the temperature gradients. An increase in rotor diameter, with unchanged edge conditions, leads to a decrease in the rate of heating of the rotor, in temperature and in the radial gradients; it also leads to an increase in negative axial gradients. Further, a disc-type rotor with shaft is considered. It was found that the temperature gradients at the surface are maximal at the moment the body temperature ceases to rise. At the joints between disc and shaft, the axial temperature gradients are considerable. The increase in the axial gradients was observed during the rise in body temperature, as well as after that - at

Card 2/3

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Unsteady heat exchange ...

constant temperature. The temperature and the temperature gradients of the disc surface increased with higher coefficient of heat transfer. The size of the shaft has a considerable effect on the temperature and the gradients at the joints. The larger the shaft diameter, the larger the temperature gradients. In order to reduce the temperature gradients at the joints, it is suggested heating the end surface of the rotor and the shaft surface during the starting period. There are 4 figures, 1 table and 1 Soviet-bloc reference.

ASSOCIATION: Instytut teploenerhetyky AN USSR (Institute of Heat

and Power Engineering AS UkrRSR)

PRESENTED: by Academician I. T. Shvets' AS UkrRSR

SUBMITTED: April 14, 1961

Card 3/3

FELOROV V.I., ZAKHARKNIKO, N.M. [Zakharenko, M.M.]; STETSKIY, A.S. [Stets'ky1, O.S.]

Experimental study of the throttling of a liquid (water) by regulating devices of turbines. Zbir. prats' Inst. tepl. AN URSR no.22:21-25 '61. (MIRA 16:6)

(Hydrodynamics)

PEDOROV, V.I., kand.tekhn.nauk; Sindi, V.M.

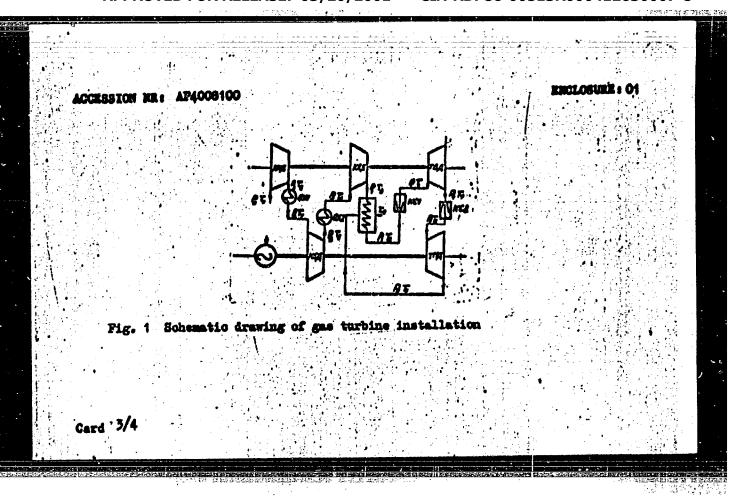
Method for measuring temperatures in rotating machinery components. Energ.i elektrotekh.prom. no.4:32-34 O.D '62.

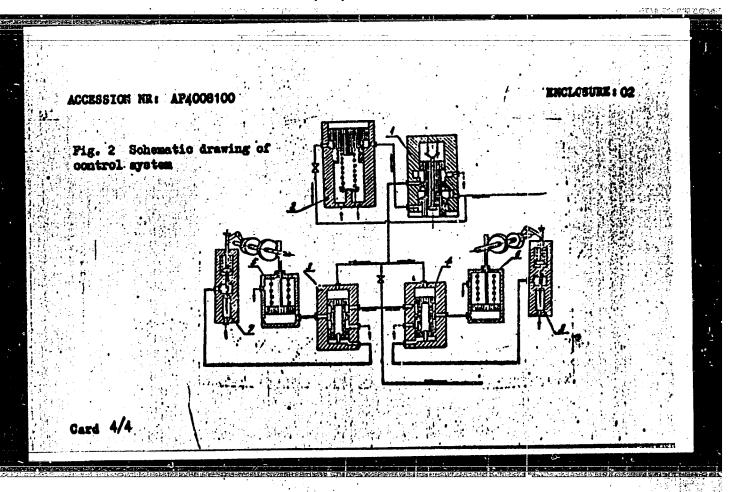
1. Institut teploenergetiki AN UkrSSR.

(Turbines) (Temperature—Measurement)

8/0145/63/000/009/0144/0153 ACCESSION NR. AP4008100 AUTHORS: Shvets, I. T. (Professor, Doctor of technical sciences); Fedorov, V. I. (Candidate of technical sciences); Martsenyuk, S. A. (Engineer); Kovalenko, (Engineer) TITLE: Analysis of transient processes in twin-shaft gas turbine unit Mashinostroyeniye, no. 9, 1963, 144-153 TOPIC TAGS: transient process, twin shaft turbine, gas turbine, turbine control, turbine characteristic, turbine ABSTRACT: The transient characteristics of a 50 000 kw gas turbine installation with three compression stages and two expansion stages were investigated. The schematic diagram of the installation is shown in Fig. 1 on the Enclosure. The pertinent parameters in the diagram are as follows: P, = 2.6 atm, T6 = 1500; P₂ = 6.3 atm, T₄ = 400; P₁ = 17 atm, T₂ = 3700, T₁ = 8000; P₄ = 5.9 atm, T₄ = 7700; The control system used to change the speed of the low- and highpressure compressors and high-pressure turbine between 2700 and 3600 rpm is shown in Fig. 2 on the Enclosure. It consists of a speed regulator (1), a booster (2),

| ASSOCIATION: Institut teploenergetiki AN UkrSSR(Heat Energy Enstitute AN UkrSSR) SUBMITTED: ORMey63 DATE ACQ: O9Jan64 | MANAGER PROPERTY | | |
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| reductions of 100, 50, and 196 were investigated as turbine installation air consumption G = 0.6, 0.8, 1.0. It was found that the gas turbine installation air consumption G = 0.6, 0.8, 1.0. It was found that the gas turbine installation (without the control system) is stable when the load is suidenly decreased (or (without the control system the speed overshoot of the generator was kept final value. With the control system the speed overshoot of the compressor to 10%. The to 3.7% (50% load step) and the speed overshoot of the compressor to 10%. The moment of inertia of the generator significantly influenced the temperature behavior before the low- and high-pressure turbines. The volume of the combustion chamber before the low- and high-pressure turbines. The volume of the combustion chamber and air ducts appeared to have negligible effects on transient response. (b) and air ducts appeared to have negligible effects on transient response is slower, the system remains stable and 0.6 indicated that although the response is slower, the original stable and the response is sufficient for practical application. ASSOCIATION: Institut teploenergetiki AN UkrSSR(Heat Energy Enstitute AN UkrSSR) EXECL: 02 | | ACCESSION MR: AP4008100 control valves (3) (for high pressure) and (3) (for low pressure), servo-asters (5) (for high pressure) and (6) (for low pressure). The dynamic equations for this (1) (for high pressure) and (6) (for low pressure). | The transfer of the control of the c |
| and air ducts appeared to have negligible that although the response is slower, the Results with G = 0.8 and 0.6 indicated that although the response is sufficient for practical application. system remains stable and the response is sufficient for practical application. Orig. art. has: 6 figures and 14 formulas. Orig. art. has: 6 figures and 14 formulas. ASSOCIATION: Institut teploenergetiki AN UkrSSR(Heat Energy Enstitute AN UkrSSR) SURMITTED: ORMANG: 09Jan64 | | reductions of 100, 50, and 17% were investigated at the gas turbine installation air consumption G = 0.6, 0.8, 1.0. It was found that the gas turbine installation (without the control system) is stable when the load is suddenly decreased (or (without the control system) is stable when the load is suddenly decreased (or increased) 50 or 100%. The speed overshoot varied within 26% and 60% of the new increased) 50 or 100%. The speed overshoot of the compressor to 10%. The to 3.7% (50% load step) and the speed overshoot of the compressor to 10%. The moment of inertia of the generator significantly influenced the temperature behavior | |
| SURKITTED: OBlicy65 | | Results with G = 0.8 and 0.6 indicated that although the response is slower, the system remains stable and the response is sufficient for practical application. Onig. art. has: 6 figures and 14 formulas. | |
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SHVETS, I.T. [Shvets', I.T.], akademik; FEDOROV, V.I.; MINYAYLENKO, N.A.; BANNIKOV, A.I. [Bannykov, A.I.]

Experimental study of a non-steady temperature field 'n the rotor of a gas turbine system. Dop. AN URSR no. 2:2:0-223 '64.

(MIRA 17:5)

1. Institut teploenergetiki AN UkrSSSR. 2. AN UkrSSSR (for Shvets).

FEDOROV, V.I.; KARNOZHITSKIY, V.N.

Thermal and stress condition in a boiler during sudden gas temperature changes. Energ. i elektrotekh. prom. no.4:59-60 O-D %. (MIRA 18:3)

CHT(d)/SPA/EHT(w)/EHP(1)/EPF(m)-2/EPP/T-2/EPA(bh)-2 Faa-4/ Ps-4 WW/MLK S/0000/64/000/000/0147/0153 AT5004218 ACCESSION NRI AUTHOR: Shvets, I. T. (Academician AN UkrSSR); Fedorov, V. T. .. TITLE: Investigation of transient characteristics of stationary gas turbine combustion chambers SOURCE: AF UKTSSR. Institut tekhnicheskoy teplofiziki. Teplofizika i teplotekhnika (Thermophysics and heat engineering). Kiev, Haukova dumka, 1964, 147-153 TOPIC TAGS: stationary gas turbine, combustion chamber, turbine testing, transient regime, gas turbine ABSTRACT: The transient characteristics during a sudden increase or decrease or a periodic change in the fuel feed rate to a stationary cae rurbine combustion chamber was investigated with natural gas in the fuel feed fluctuations were changed at \sim 1.0 \pm 8 cps and amplitudes \sim 1.7 \pm 1.1 \pm 1.1 \pm 1.1 \pm 2.1 \pm 1.1 \pm and the standard to the desired the transfer of the section of the touchy determined. As a result, the transfer function and transfer Card 1/2 the second secon

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ACCESSION HRI AT5004218

coefficients for the investigated combustion chamber were determined. The time lag was plotted vs the fuel feed rate in the transfert regimes. Orig. art. has: 6 figures. [AC]

ASSOCIATION: Institut tekhnicheskoy taplofiziki AN UkrSSR (Institute of Technical Thermophysics, AN UkrSSR)

SUBMITTED: 10Aug64

ENCL: 09

SUB CODE: PR

NO REF SOV: 001

OTHER: 000

ATD PRESS: 3179

Card 2 / 2

FEDOROV, V. I., BANNIKOV, A. I. and SHVETS, I. T. (ITTF Academy of Sciences of Ukrainian SSR)

"Results of investigation of dynamics of combustion chambers GTU with fast flowing high-temperature processes."

Report presented at the Section on Physics of Combustion, Scientific Session, Council of Acad. Sci. Ukr SSR on High Temperature Physics, Kiev, 2-4 Apr 1963.

Reported in Teplofizika Vysokikh temperatur, No. 2, Sep-Oct 1963, p. 321, JPRS 24,651. 19 May 1964.

"APPROVED FOR RELEASE: 03/20/2001 CIA-RD

CIA-RDP86-00513R000412630007-8

EWG(1)/EWT(1)/EWP(+)/EPA(+)-2/EWT(E)/EPP(+)/SIP(1)/EPF(h)-2

27.010162

AUTHOR: Caipcya, V. A.; Fedorov, V. I.

TIME: Experimental determination of the coefficient of thermal conductivity of liquid semiconductors

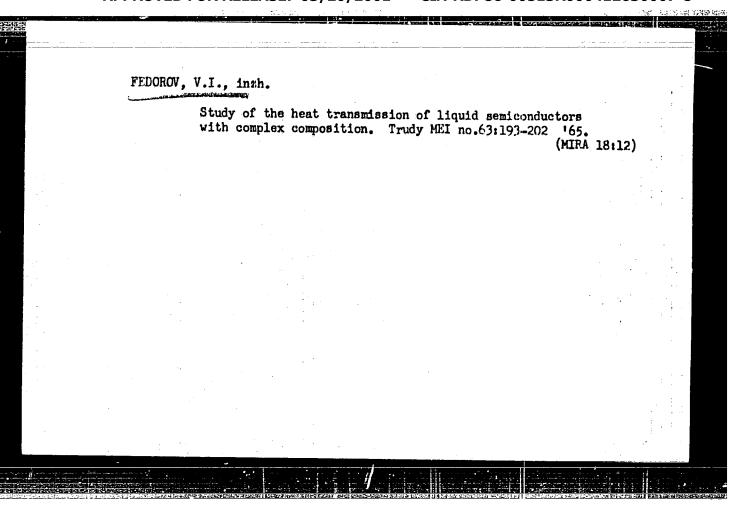
JOURGE Teplofizing weekilds temperatur, v. 3, ro. 2, 1965, 218-233

. Thermal conductivity, liquid earlow ductor, bigh temperature measure

ment, corrosive medium

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| L 52702-65 Accession NR: | AP5010462 | |
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| investigate the over a wide range or with | be filled with an inert ges. The apparatus makes a thermal conductivity of very aggressive semicondage of temperatures. The measurement, the system electricity, and the experimental arroy of the procedure are a seented of an experimental story of the charge of the procedure are a seented of an experimental story of the charge are temperature. Work is conting to 1967 to extend its temperature range to 1967 to | for feeling the collectivity of a |
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FATKUICIN, O.Kh.; CHUKHLOV, V.I.; OYKS, G.N.; ANSHELES, 1.I.; SIVKOV, S.S.; FEDAN, A.T.; FEDOROV, V.I.; DANILIN, V.I.

Deoxidizing ball-bearing steel with vacuum treatment by ferroaluminum. Metallurg 10 no.12:20-22 D '65. (MIRA 18:12)

1. Zavod "Krasnyy Oktyabri" i Moskovskiy institut stali i splavov.

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| | ACC NR: AP6015067 (W) SOURCE CODE: UR/0363/66/002/005/0844/0849 | |
| | AUTHOR: Vukalovich, M. P.; Fedorov, V. I.; Okhotin, A. S.; Glazov, V. M. | |
| - | ORG: Moscow Power Institute (Moskovskiy energeticheskiy institut); Moscow Institute of Steel and Alloys (Moskovskiy institut stali i splavov) | |
| | TITLE: Study of the heat remductivity of antimony and bismuth tellurides in the liquid phase | |
| | SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 5, 1966, 844-849 | |
| | TOPIC TAGS: bismuth compound, antimony compound, telluride, heat conductivity, electric conductivity, phonon scattering, semiconductor research | |
| | ABSTRACT: A technique was developed for measuring the heat conductivity of liquid semiconductors by determining the radial heat flux in a ring gap with the aid of graphite cylinders which insure reliable and reproducible results. The temperature dependence of the heat conductivity of antimony and bismuth tellurides was thus measured in the liquid state up to 1200°C and its linear increase during heating was measured in the liquid state up to 1200°C and its linear increase during heating was | ! . |
| | measured in the liquid state up to 1200 c and its linear interest and demonstrated. The electronic component of the heat conductivity was determined in | - |
| | Card 1/2 UDC: 546.86'241 + 546.87'241 | *** |

| melts of these compounds on the basis of electrical conductivity data. The mechanism of heat conductivity in liquid Bi ₂ Te ₃ and Sb ₂ Te ₃ -type semiconductors was found nism of heat conductivity in liquid Bi ₂ Te ₃ and Sb ₂ Te ₃ -type semiconductors was found nism of heat conductivity in liquid Bi ₂ Te ₃ and Sb ₂ Te ₃ -type semiconductors was found nism of heat conductivity in liquid components) to a third component to be due (in addition to the electronic and lattice components) to a third component related to liquid and phonon-liquid scattering. A correlation was noted beneat the results obtained and the data of physicochemical analysis of the binary tween the results obtained and the data of physicochemical analysis of the binary liquid systems Bi-Te and Sb-Te. Orig. art. has: 6 figures. SUB CODE: 20/ SUBM DATE: 24Aug65/ ORIG REF: 015/ OTH REF: 006 | L 29794-6 | 6 | an en ege | east term, in t | | | | 7 |
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FEDOROV, V.I., inshener; CHERMYAKOV, G.S., inshener.

Experience in using aerial photography in surveying highways.
Avt.dor. 19 no.12:18-20 D '56. (MIRA 10:10)

(Roads--Surveying) (Aerial photogrammetry)

PHASE I BOOK EXPLOITATION

sov/2766

3(4)

Fedorov, Valentin Ivanovich, Candidate of Technical Sciences, Docent

Aerofotoizyskaniya avtomobilinykh dorog (Aerophotographic Surveying of Highways) Moscow, Avtotransizdat, 1959. 224 p. Errata slip inserted. 1,800 copies printed.

Ed.: V.V. Kislov: Tech. Ed.: N.V. Mal'kova.

PURPOSE: This book is intended for students at highway and road vuzes as well as for engineers and technicians working in the field of highway surveying and planning.

COVERAGE: This book presents a brief history of the development of aerophotographic road surveying and an outline of the basic technical procedures to be followed in carrying out such a survey. Further, it analyzes a number of new methods to be used in the selection of proper roads. These include the application of a stereotion of proper roads. These include the application of a stereotion of of the terrain for locating the route and special interpretation of aerophotographs. In addition, it describes modern

Card 1/7

Aerophotographic Surveying of Highways

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techniques and equipment used in aerophotography and photogrammetry and applied in complex surveying of highways, roads, and railroads. The author thanks Professor A.V. Gorinov, Corresponding Member of the Academy of Sciences; V.I. Avgevich, Doctor of Geographical Sciences; Professors V.F. Babkov, N.Ya. Bobir, M.D. Konshin, and P.I. Shilov; Docents M.S. Zamakhayev and G.P. Levchuk; Chief Engineer of the Soyuzdorproekt I.f. Moroz. There are 34 Soviet references.

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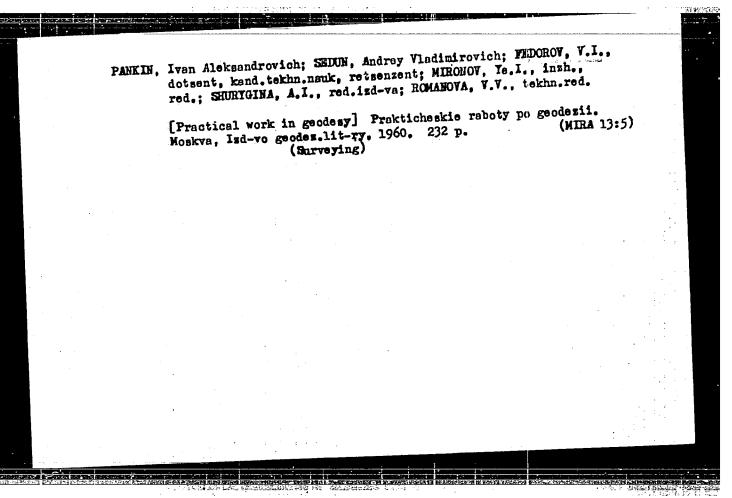
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FEDOROV, Valentin Ivanovich; ANDREYEV, O.V., dots., retsenzent;
LEVCHUK, G.P., dots., retsenzent; KISLOV, V.V., dots., red.

[Aerial geodesy and aerial surveying of highways] Aerogeodeziia i aeroisyskaniia avtomobil'nykh dorog. Hoskva, Transport, 1964. 318 p. (MIRA 17:12)

S/028/61/000/003/002/005 B129/B201

AUTHORS:

Rokhman, D. Ye., Federov, V. I., Myrzak, Yu. P.

TITLE:

Bent tubes

PERIODICAL:

Standartizatsiya, no. 3, 1961, 30-33

TEXT: Tubeworks are currently supplying straight tubes only, and consumers are required to bend them themselves. The bending operation is done according to factory plans and norms, or, at best, according to specifications. This means that there is no exchangeability among bent tubes. One must consider, moreover, that not all consumer plants are equipped in a way as to ensure technically perfect bending results. A large metal waste is tolerated as a result of the primitive method, and high costs are therefore involved in the process. The erection of tube-bending plants in the tubeworks eliminates all these drawbacks and results in a considerable saving of metal and equipments in the manufacturing of elbows for short tubes which, according to current norms, cannot be supplied due to losses in the length. The work of a centralized enterprise without a unification of delivery conditions is of course impossible even in leading

Card 1/2

S/028/61/000/003/002/005 B129/B201

Bent tubes

industrial branches. The Ukrainskiy nauchno-issledovatel'skiy trubnyy institut (Ukrainian Scientific Research Institute for Pipes) has therefore worked out a project for the standardization of bent tubes. Exchangeability will be ensured, and the working efficiency of the centralized tube-bending plants will be increased by standardizing the dimensions of the tubes for bending, the curvature radius, admissible tolerances of the curvature dimensions, the material of the bent tubes, and, finally, the conditions of hydraulic tests. This standardization will be the basis for that of the tube-bending equipments. Bending of tubes on presses requires a high precision in production, sharp bends, but it yields only bent parts, without straight parts, which renders the welding operations and the removal of seams more difficult. Tube bending on special machines is less difficult and permits applying several bends on one tube, with straight parts between the bends, and raises the dependability of the work, while considerably reducing the welding work. It is recommended that tubes be assorted according to tube diameters and wall thicknesses, and admissible tolerances as well. There are 2 figures and 4 tables.

Card 2/2

ROKHMAN, D.Ye., kand.tekhn.nauk; FEDOROV, V.I., inzh.; MYRZAK, Yu.P., inzh.

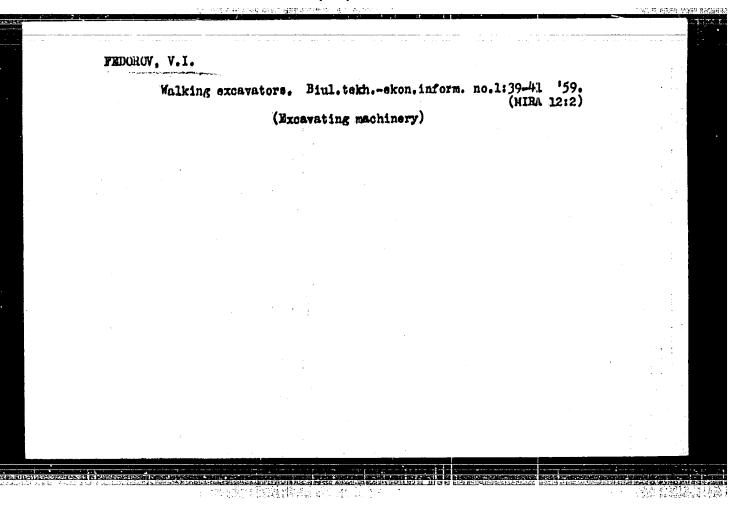
Making more precise the dimensions of ptps sections at the point of bending. Khim.mash. no.4:33-35 Jl-Ag '62. (MIRA 15:7)

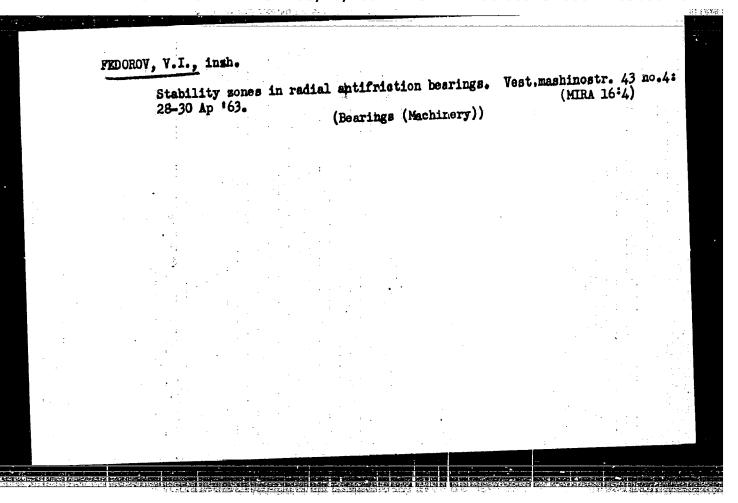
(Pipe bending)

VASHENTSEVA, V.M.; VOLKOV, M.I.; ZHAMIN, V.A.; ZHIKOV, F.G.; CHUBUK, I.F.; KAPUSTIN, Ye.I.; KOZLOVA, N.G.; KOROCHKIN, V.V.; KUL!KOV, A.V.; MARINKO, I.L.; MOLCHALOV, B.M.; ROMANOV, B.V.; FEDOROV, V.I.; SHIRINSKIY, I.D.; GRINGAUZ, A., red.; SHLYK, M., tekhn, red.

[How to study the economics of socialism] Kak izuchat' politicheskuiu ekonomiiu sotsializma; posobie dlia rukovoditelei seminarov sistemy partiinogo prosveshcheniia. Moskva, Mosk. rabochii, 1961. (MIRA 14:8)

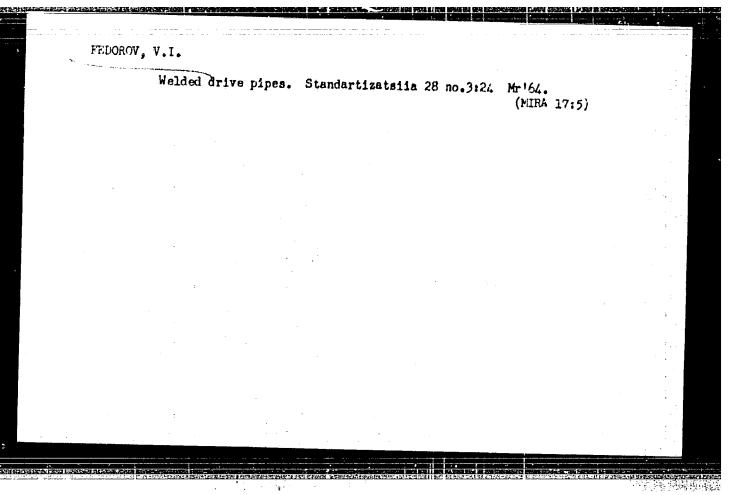
1. Dom politicheskogo prosveshcheniya, Moscow. (Economics—Study and teaching)

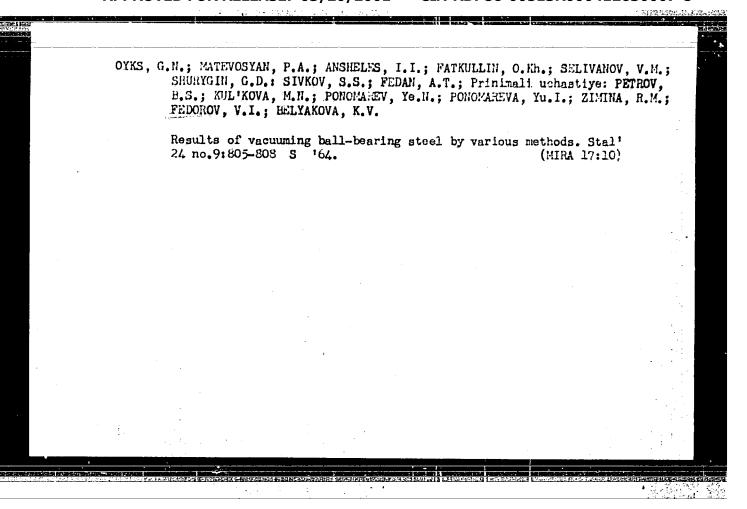




| 1. Is kefedry khirurgii Belorusskogo gosudarstvennogo instituta usovershenstvovaniya vrachey (zaveduyushchiy kafedroy prof. A.M.Boldin) i khirurgicheskogo otdeleniya Minskoy chlastnoy klinicheskoy bol'nitsy. (STOMACHCANCER) | No. 10 Acres and the second | Primary multiple cancer of the stomach. Zdrav. Bel. 7 no.12:29-31 D '61. (MIRA 15:2) | , |
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Palpability of a tumor and operability of stomach cancer. Zdrav. D1. 8 no.11:10-13 N '62. (MIRA 16:5) 1. Iz kafedry khirurgii (zav. kafedroy - prof. A.M. Boldin) 1 khirurgicheskogo otdeleniya Minskoy oblastnoy klinicheskoy bol'nitsy (glavnyy vrach N.I. Kotovich). (STOMACH—CANCER) (PALPATION (MEDICINE))





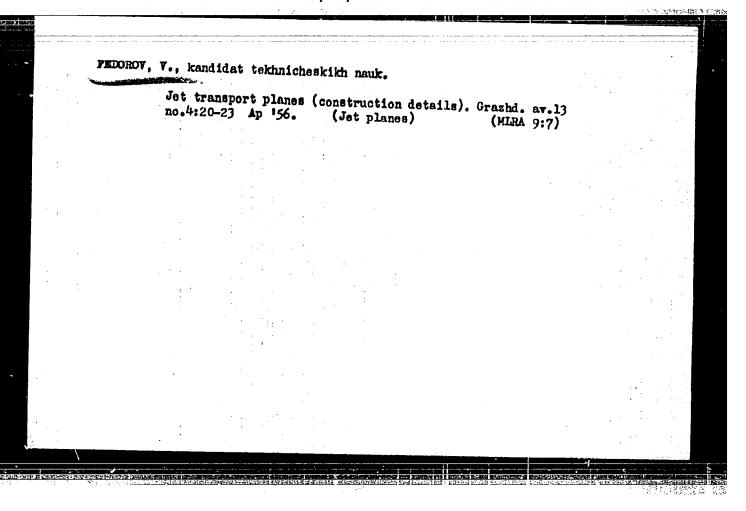
FEDOROV, V.I., kand. tekhn. nauk; KARNOZHITSKIY, V.N., kand. tekhn. nauk;

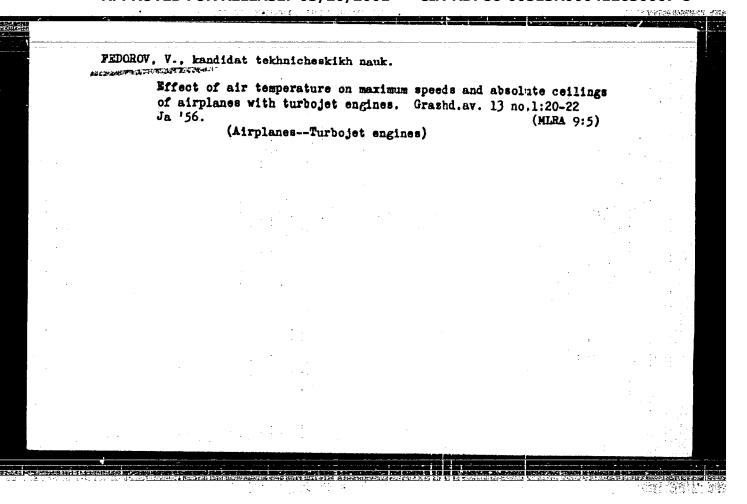
MIKRYUKOV, A.P., inzh.

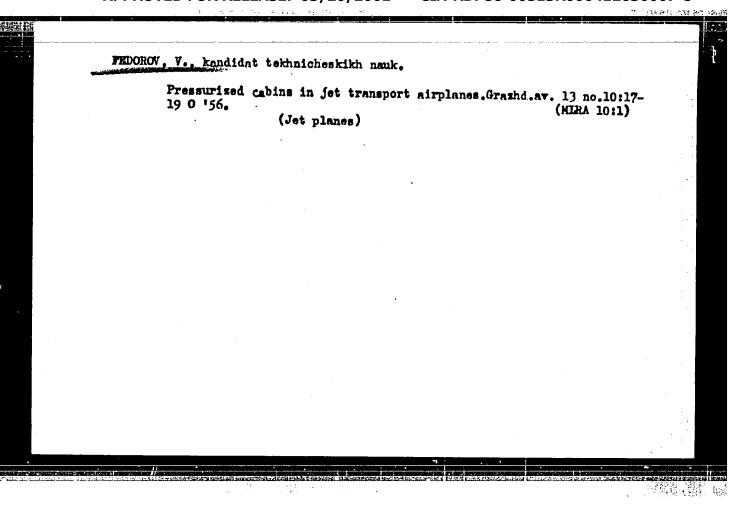
Determination of inertial characteristics of reguline thermocouples.

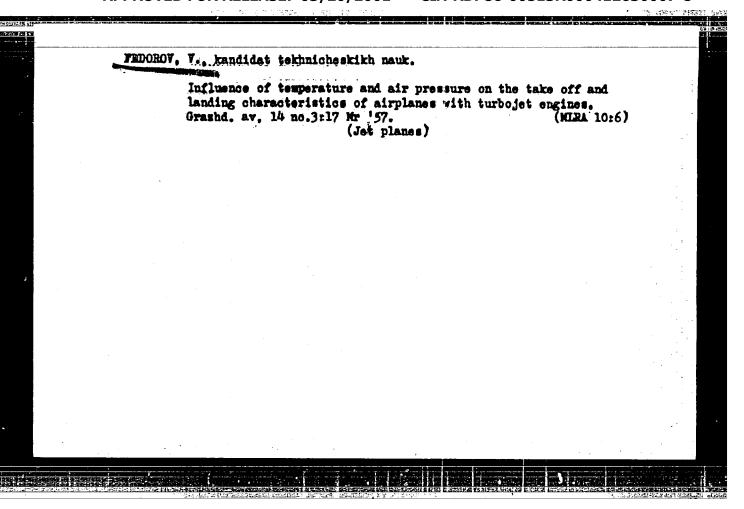
Energ. 1 elektrotekh. prom. no.3:31-33 J1-S '65.

(MIPA 18:9)









ZHABROV, Aleksey Aleksandrovich; VASIL'IEV, A.A., red.; FEDOROV, V.I., red.; KARYAKINA, M.S., tekhn.red.

[Theory of the flight and piloting of an airplane] Teoriia poleta i pilotirovaniia samoleta. Moskva, Ind-vo DOSAAF, 1959.
411 p. (MIRA 13:2)

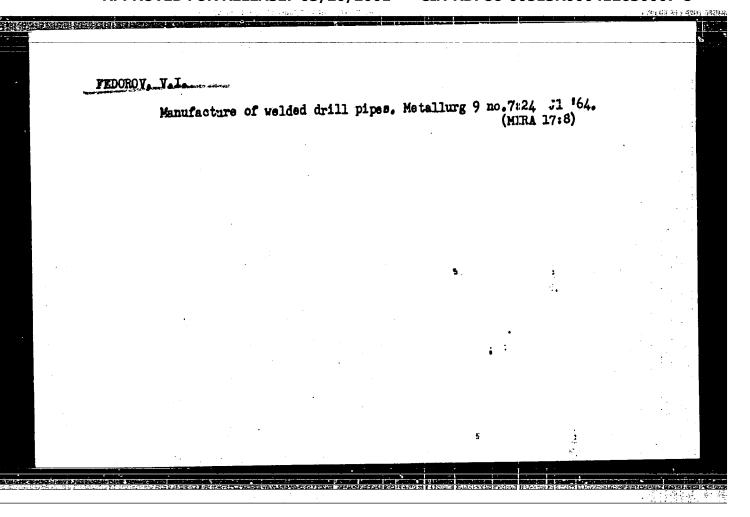
(Airplanes--Piloting)

PHASE I BOOK EXPLOITATION SOV/3874

- Fedorov, Vladimir Ivanovich, Docent, Candidate of Technical Sciences, Engineer-Colonel
- Konstruktsiya reaktivnykh samoletov (Design of Jet Aircraft) Moscow, Voyen. izd-vo M-va obor. SSSR, 1960. 266 p. Errata slip inserted. No. of copies printed not given.
- Ed.: M.V. Druzhininskiy; Tech. Ed.: T.F. Myasnikova.
- PURPOSE: This book is intended for the flight crews and technical personnel of the VVS (Air Force) and GVF (Civil Air Fleet), students in courses of aviation schools of the Air Force and of aeroclubs, and for young readers interested in the design of jet aircraft.
- COVERAGE: The book is an elementary descriptive text on the design of jet aircraft. It covers the purpose and constructions of basic components and assemblies and the loads acting on them, aircraft power plants, several pressure cabin systems, and emergency equipment for crew safety. In addition, advanced ideas on further develop-

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BOV/3874 Design of Jet Aircraft ment and improvement of jet-aircraft design for supersonic flight are presented based on non-Soviet views. Data from both Soviet and non-Soviet literature were used. No personalities are mentioned. There are 13 Soviet references. TABLE OF CONTENTS: 3 Foreword 5 15 18 Ch. I. General Information on Jet Aircraft Purpose, classification, and tactical-technical requirements Forces acting on aircraft Load factors and safety factors 20 Standards for strength and rigidity Plight limits of an aircraft Ch. II. Airframe of an Aircraft 27 27 The Wing Loads acting on the wing in flight Design of an airplane wing. Purpose and operation of the 34 wing components Card 2/77



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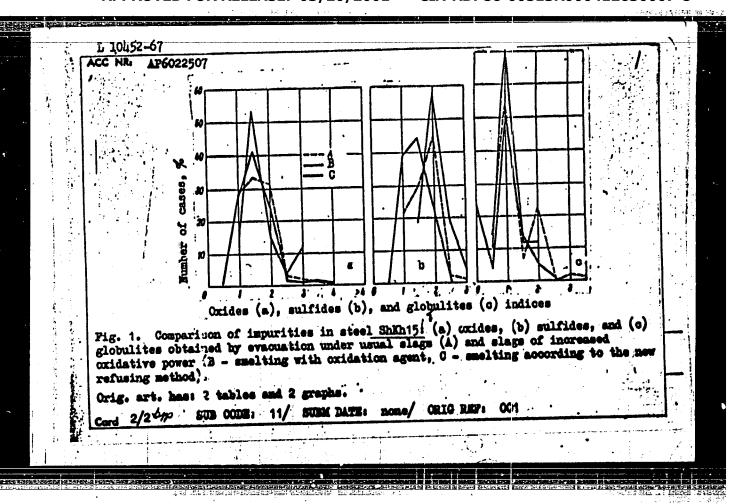
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| | AUTHORS: Oyks, G. W.; Matevosyan, P. A.; Ansheles, I. I.; Fatkallin, O. Kh.; Selivanov, V. M.; Petrov, B. S.; Sivkov, S. S.; Fedorov, V. I. | 10 |
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FEDOROV, V.I.; ABRAMOVICH, A.I.

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- Levin, M.Ye., Malinin, G.A., Mandrazhitskiy, M.N., Sinitsyn, V.P. and Fedorov, V.I.
- Zashchita ot sredstv massovogo porazheniya (Defense Against Weapons of Mass Destruction) Moscow, Uchpedgiz, 1958. 181 p. 100,000 copies printed.
- Eds. (Title page): Sinshchyn, V.P. Candidate of Technical Sciences and Malinin, G.A. Ed. (Inside book): Lavrovskiy, K.F.; Tech. Ed:Natapov, M.I.
- PURPOSE: This book is intended for public instructors of the PVO DOSAAF (Antisircraft Defense Unit of the All-Union Voluntary Society for the Promotion of the Army, Aviation and Navy).
- COVERAGE: This book includes general information on atomic, chemical and basteriological weapons and measures for individual and collective protection from them.
 The various authors contributed to the text as follows: M.Ye. Levin wrote Chapters 1,2,3,4 and 6; M.N. Mandrazhitskiy: Chapters 7,8 and 9; G.A. Malinin Chapter 10; V.P. Sinitsyn-Chapters 11, 12, and 14; and V.I. Fedorov-Chapter 5.

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